

# June Climate Summary for Southwest Lower Michigan

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## Overview

June 2010 was wetter and a little warmer than normal and produced a lot of severe weather.

The average temperatures for June 2010 across Southwest Lower Michigan were between 64 and 70 degrees with values running from near normal to over 2 degrees above normal (Figure 1). The average highs were 2 degrees cooler than normal to near normal. The average lows were 1 to 2.5 degrees above normal.

The precipitation totals for June (Figure 5) were 4 to 9 inches across Southwest Lower Michigan. The totals were 1.5 to 4.5 inches above normal (Figure 6).

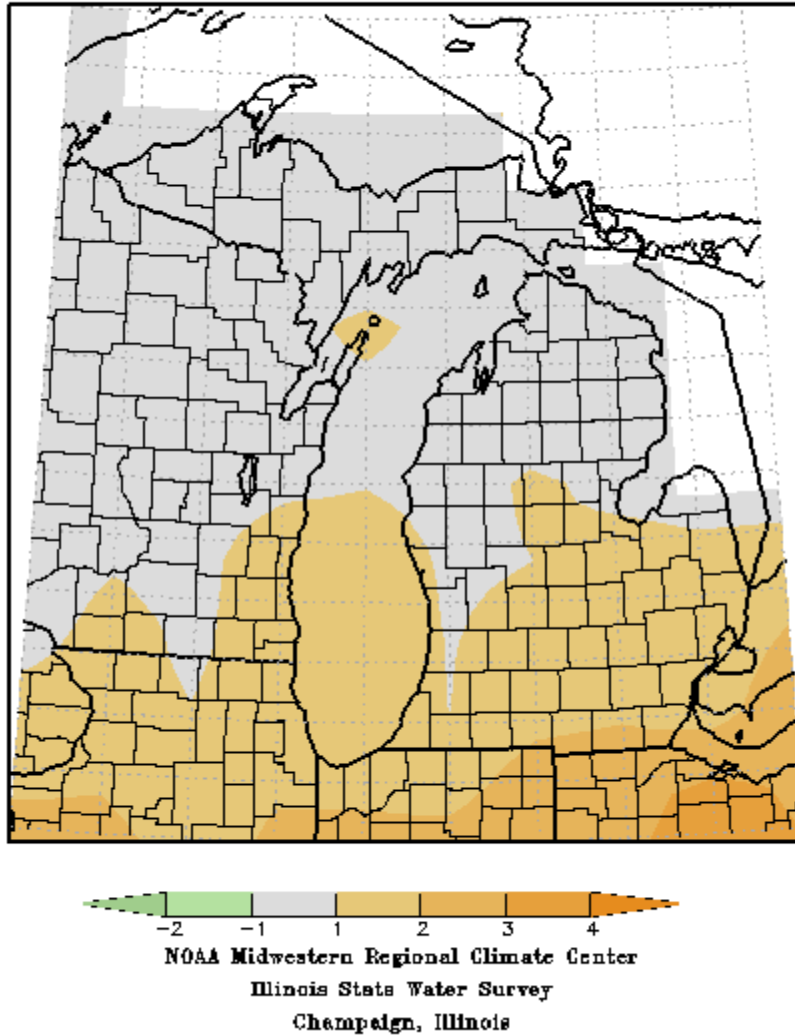
Location		Temperature (degrees F)	Precipitation (inches)	Snowfall (inches)
Grand Rapids	<i>Reported</i>	69.2	8.04	0
	<i>Normal</i>	67.1	3.67	0
	<i>Departure</i>	+2.1	+4.37	0
Lansing	<i>Reported</i>	68.7	4.57	0
	<i>Normal</i>	66.2	3.60	0
	<i>Departure</i>	+2.5	+0.97	0
Muskegon	<i>Reported</i>	67.6	4.52	0
	<i>Normal</i>	64.9	2.58	0
	<i>Departure</i>	+2.7	+1.94	0

**Table 1.** Reported temperature, precipitation and snowfall for June 2010 for Grand Rapids, Lansing and Muskegon.

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### Temperature Summary for June:

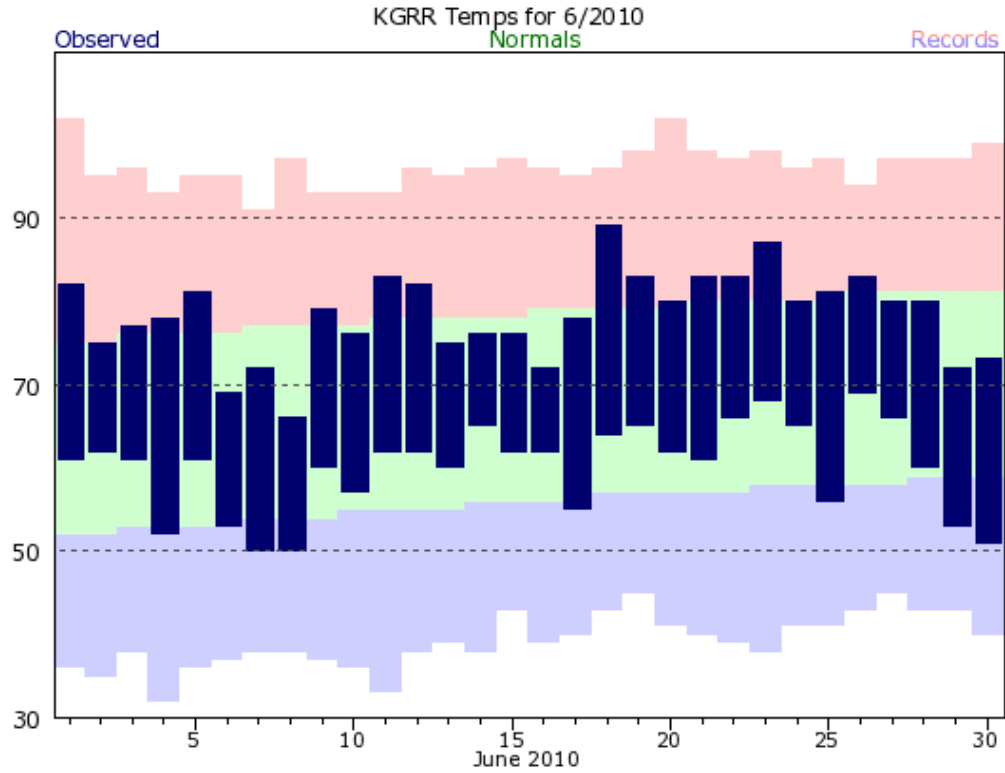
Average Temperature Departure from Mean in Degrees F  
June 1, 2010 to June 30, 2010



**Figure 1.** Average temperature departure from normal during June 2010.

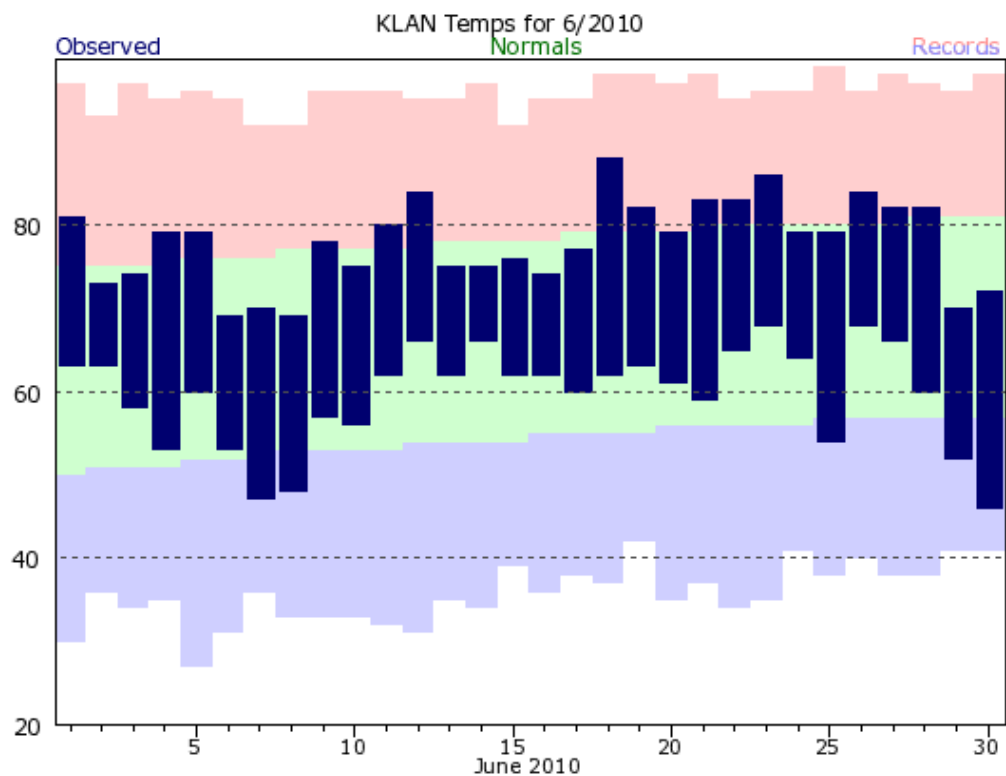
Average temperatures at the three Southwest Lower Michigan climate sites (Table 1) were between 2 and 3 degrees above normal. As can be seen from Figures 2-4, much of June was warmer than normal. However, there were 3 distinct cooler periods: From the 6<sup>th</sup> through the 9<sup>th</sup>; from the 13<sup>th</sup> through the 17<sup>th</sup>; and on the 29<sup>th</sup> and 30<sup>th</sup>.

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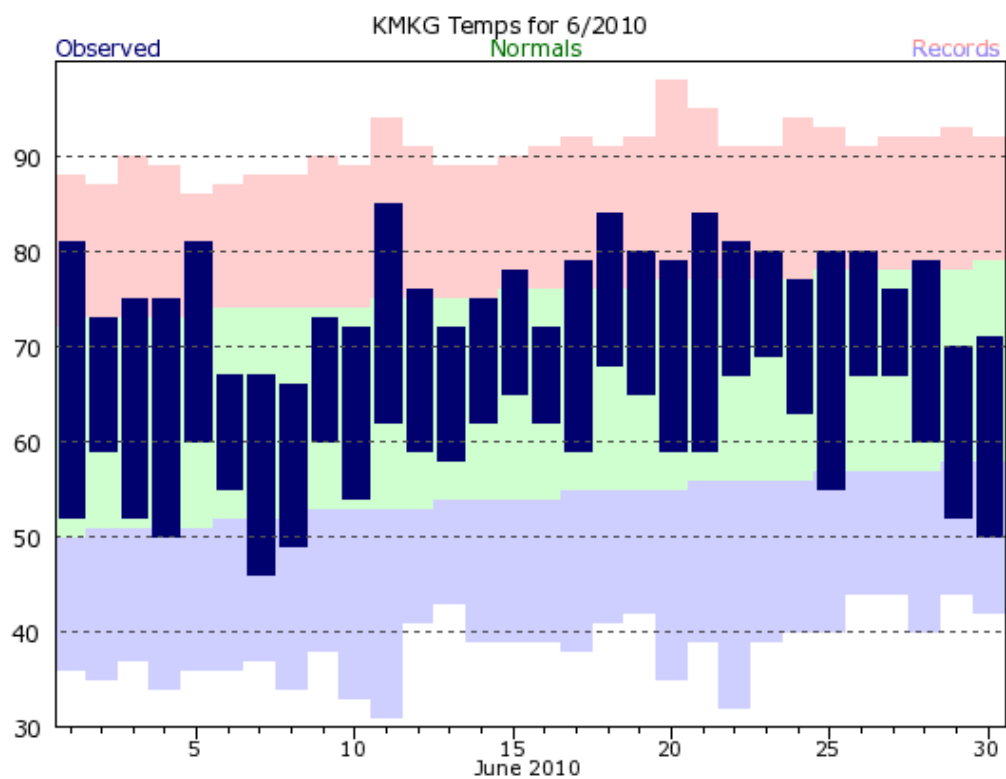


**Figure 2.** Observed temperatures at the Gerald R. Ford International Airport. Dark blue bars are the temperature range for each day. The central colored strip indicates the normal range of temperatures. Record high and low temperatures are indicated in the top colored strip and the bottom colored strip, respectively.

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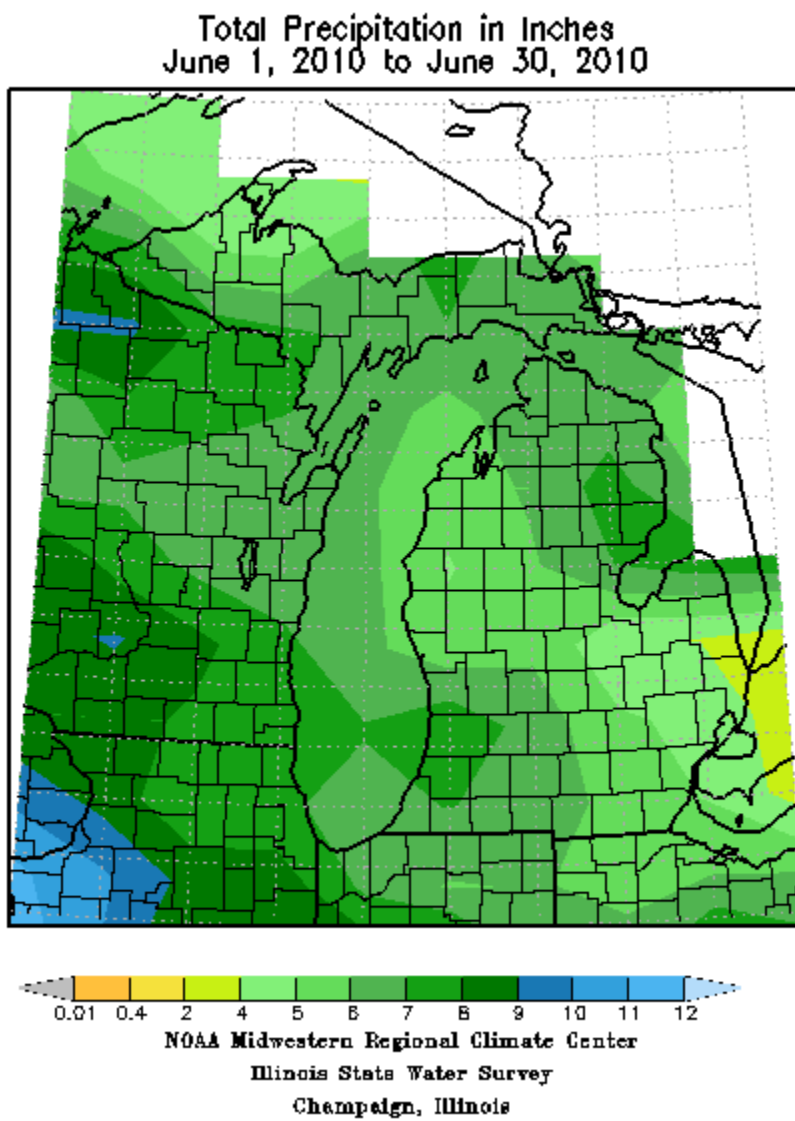
**Figure 3.** As in Figure 2, except for the Lansing/Capital City Airport.



**Figure 4.** As in Figure 2, except for the Muskegon County Airport.

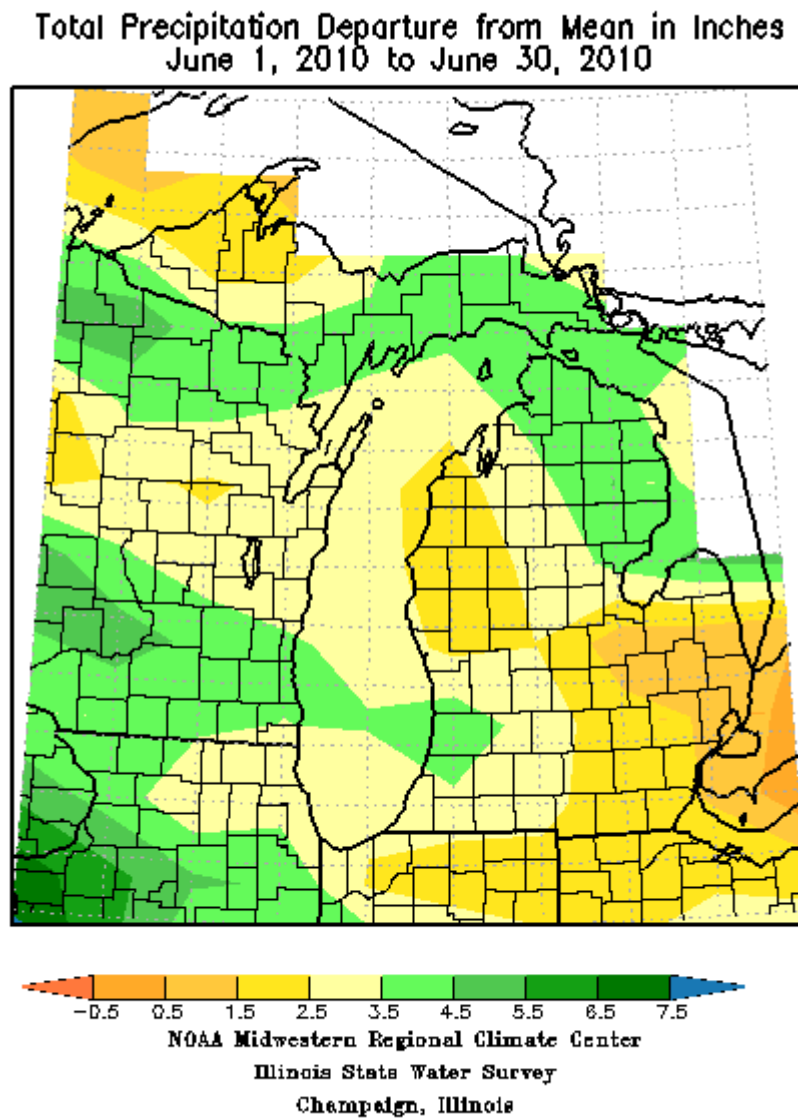
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### Precipitation Summary for June:



**Figure 5.** Total precipitation for June 2010.

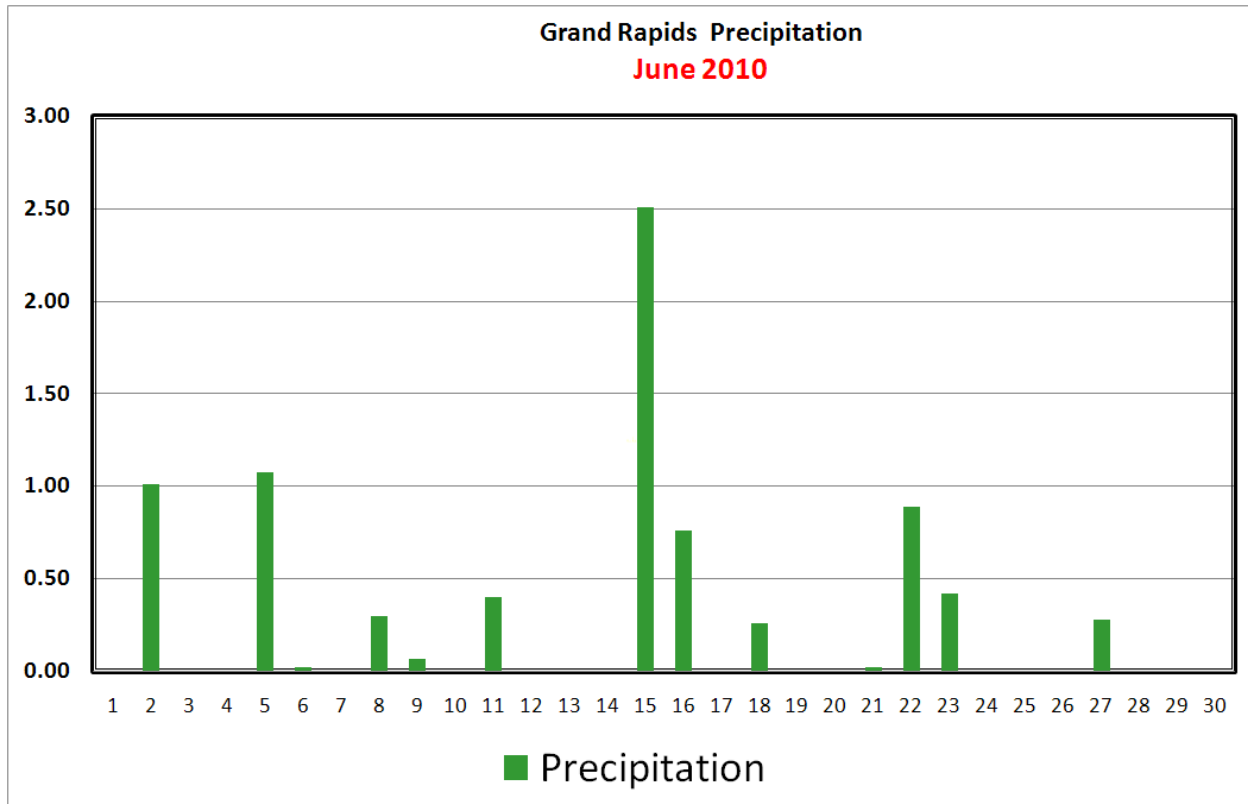
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**Figure 6.** Precipitation departure from normal during June 2010.

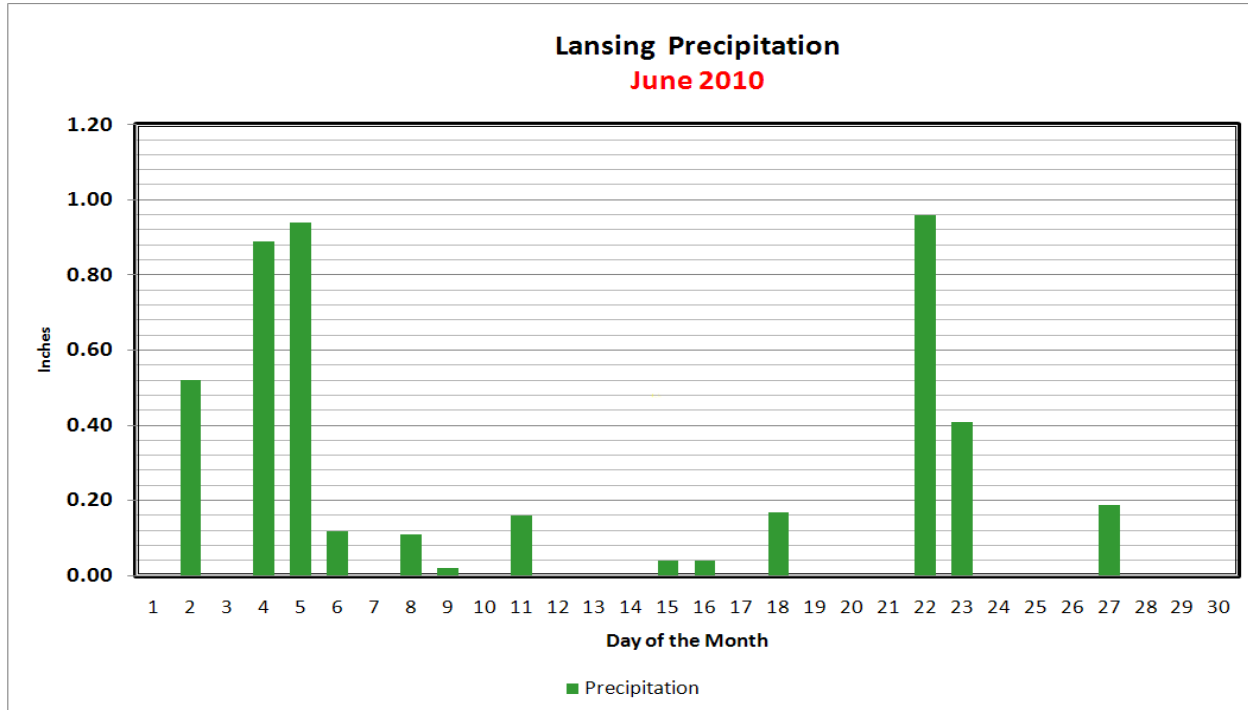
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The total precipitation for the climate sites this month (Table 1) ranged from 4.52 inches in Muskegon and 4.57 inches in Lansing up to 8.04 inches in Grand Rapids. These totals were 1.94 inches, 0.97 inches and 4.37 inches above normal respectively. As can be seen from Figures 7-9, this above normal precipitation was accumulated over multiple days. Daily totals greater than half an inch fell on 4 or 5 days at each site.

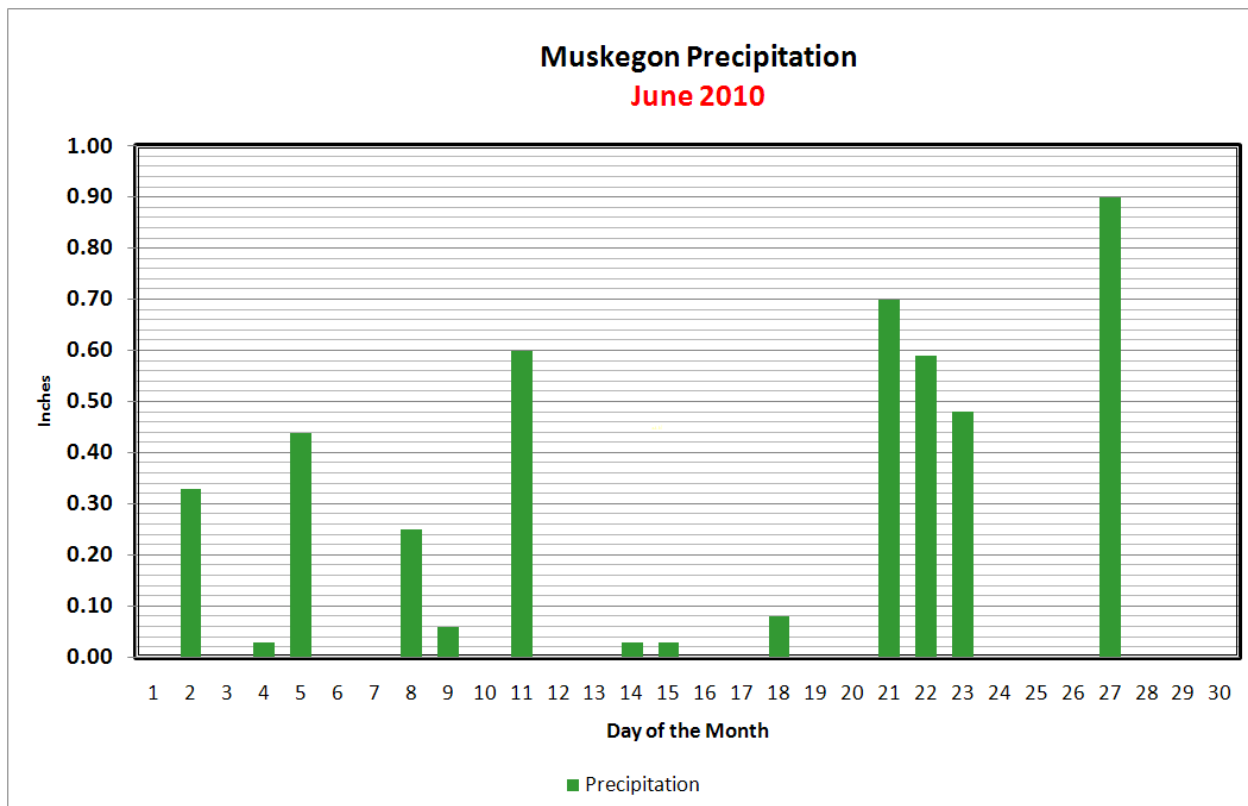


**Figure 7.** Daily precipitation in inches for June 2010 at the Gerald R Ford International Airport.

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**Figure 8.** As in Figure 7, except for the Lansing Capital City Airport.



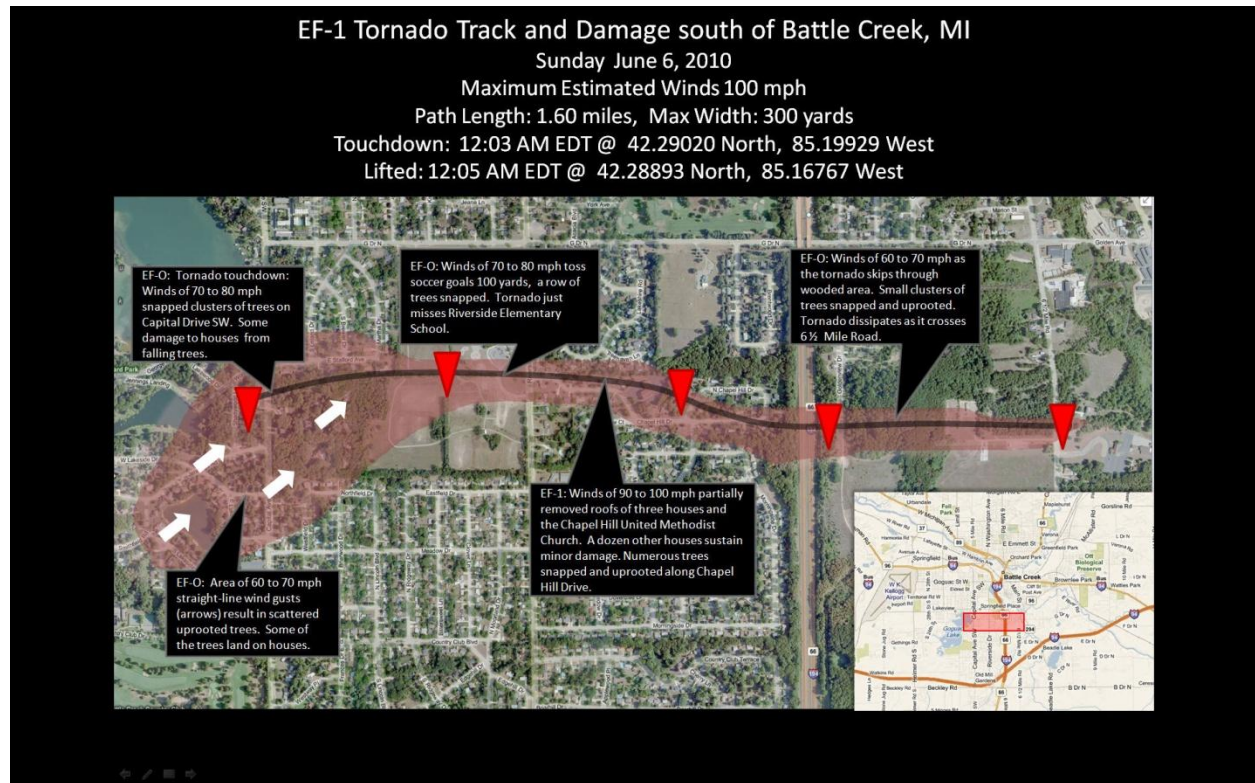
**Figure 9.** As in Figure 7, except for the Muskegon County Airport.



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### Severe Weather Summary for June:

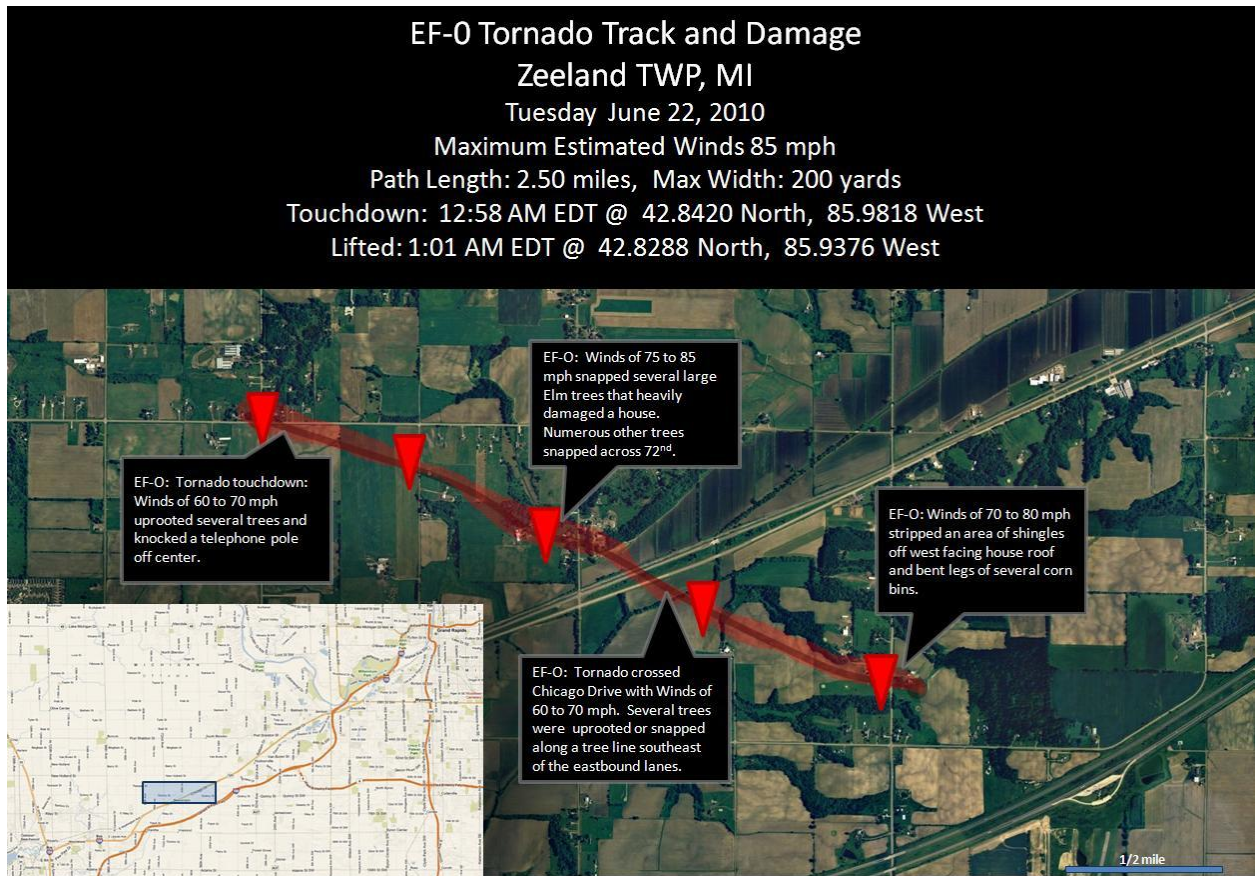
A series of systems moved across Southwest Lower Michigan in early June. Thunderstorms caused wind damage and produced some hail with diameters below an inch. An EF-1 tornado (Figure 10) occurred at 12:03 am on the 6<sup>th</sup> two miles south of Battle Creek in Calhoun County.



**Figure 10.** Track of EF-1 tornado Sunday June 6<sup>th</sup>, 2010.

A round of thunderstorms, on the evening of the 18<sup>th</sup> into the 19<sup>th</sup>, produced strong damaging winds in the forecast area. Hail, with a diameter of 1.75 inches, was reported in Jackson County. Yet another round of thunderstorms, from the evening of the 21<sup>st</sup> into the 23<sup>rd</sup>, produced strong damaging winds and heavy rain. An EF-0 tornado (Figure 11) touched down around 12:58 am EDT on the 22<sup>nd</sup> 3 miles northeast of Zeeland in Ottawa County.

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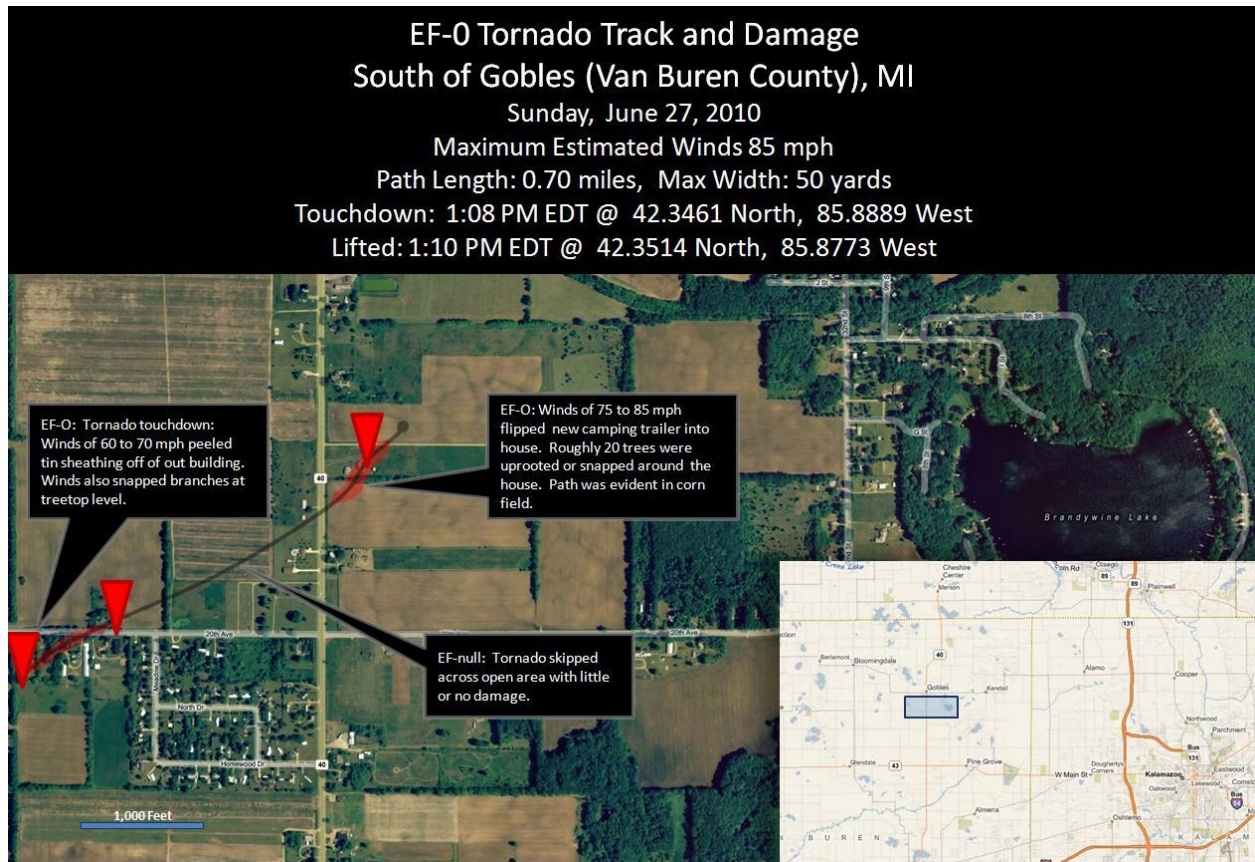


**Figure 11.** Track of EF-0 tornado Tuesday June 22<sup>nd</sup>, 2010.

The last stormy period for June occurred from the 27<sup>th</sup> into the 28<sup>th</sup>. Again, strong damaging winds and heavy rainfall fell upon the area. Another tornado was also confirmed with this system. The EF-0 tornado (Figure 12) occurred around 1:08 pm EDT on the 27<sup>th</sup> a mile South Southeast of Gobles in Van Buren County.



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**Figure 12.** Track of EF-0 Tornado Sunday June 27<sup>th</sup>, 2010